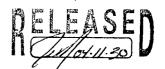
5/2/

05.05.03	Work Order:	23145	
Description: Doubler	Part Number:	D3144-109	
05.05.03			
Dwg: D3144 Rev. Bipage 8	Qty:	10	
04.12.0; M KT		Page 1 of 1	

Step	Location	Procedure	ͺВγ	Date	Qty
1	DC	Issue Traveler	(X)	05.05.03	lo
2	PG	Issue P/O: 100 180 Email or Ship DXF file to vendor Laser Cut D3144-109 flat pattern per Dwg D3144 Possible Supplier: GFI or Industrial Laser Material release note is required	u	osusay	<i>(</i> 0
3	RG	Receive and Inspect for transit damage  Enure material release note is attached	CL	05/05/18	10
4	QC6	Inspect dimensions as per Dwg D3144		25.05.26	9
5	GA	Deburr	$\mu$	1A U	
6	FP	Chemical Conversion Coat per QSI 005 4.1	M	05 09 16	9
7	FP	Powder Coat Black Sandtex (Ref: 4.3.5.7) per QSI 005 4.3	M	05 05 16	q
8	QC3	Inspect Powder Coat	CX	05/05/27	9
9	ST	Identify and Stock	1 .	05/05/07	9
10	AC	Cost / part: <u>Z 8, 8 z</u> Close W/O z 7, 90		05.06-01	9
11	DC	Close W/O Z 7, 9( Inspect Level 21	1 1	65,06.03	9

Rev	Date	Change	Revised By	Approved
Α	04.11.29	New issue	KJ/RF	



# **Dart Aerospace Ltd**

W/O:		WORK ORDER CH	HANGES							
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Mfg / Design Mgr	Approval QC Inspector			
05.55.26	4	ONE KEPT FOR TEMPLATE IN STORE	本	o5. 25. 26	١	DS. 26. 26	19) 05:003			

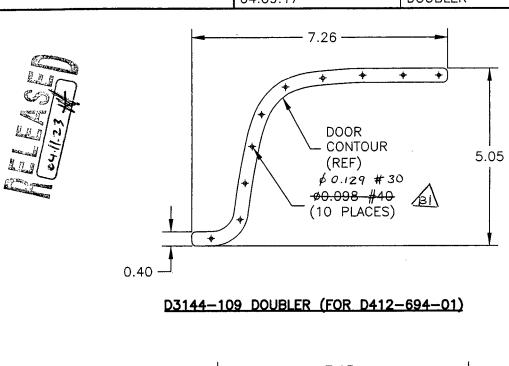
NCR:			WORK ORDI	ER NON-CONFORMAN	CE (NCR)			
i	1	Description of NC		Corrective Action Section B	<u>,                                    </u>	Verification	Ammorral	Anneoval
DATE	STEP	Section A	Initial Design Mgr	Action Description  Design Mgr	Sign & Date	Section C	Approval Design Mgr	Approval QC Inspector
	·							

Part No:	PAR #:	Fault Category:	NCR:	Yes	No	DQA:	Date:	
NOTE: Date & initial all entries				QA: N	/C C	osed:	Date:	<





DESIGN	DRAWN BY	=	ROSPACE LTD RY, ONTARIO, CANADA
CHECKED.	APPROVED	DRAWING NO.	REV. B
1		D3144	SHEET 8 OF 9
DATE		TITLE	SCALE
04.09.17		DOUBLER	NTS



SHOP COPY RETURN TO MIGINEERING

> TED COPY INDMENT OTICE

元の元代 ORDER NO. 23145 DOOR CONTOUR 4.82 (REF) \$0.129 #30 Ø0.098 #40 (10 PLACES) 0.40

## D3144-115 DOUBLER (FOR D412-694-02)

### D3144-109/-115 NOTES:

- 1) MATERIAL: 2024-T3 SHEET (QQ-A-250/4) 0.032 THICK (REF DART SPEC M2024T3S.032)
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

- POWDER COAT BLACK SANDTEX (4.3.5.7) PER DART QSI 005 4.3 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) ALL DIMENSIONS ARE IN INCHES
- 5) BREAK ALL SHARP EDGES 0.005 TO 0.010
- 6) MACHINE PER DRAWING "D3144-B8.DWG"

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### Job Costing Report

Dart Aerospace Ltd. Hawkesbury

May 03, 2005 10:16 am

Work Order No : 0023145

Project Name : D3144-109 Project For : WK521

Work Order Type : Main

Main WO Number :

House Part Number: D3144-109

Description : Doubler

Manufactured : Yes

Amount Req'd: 10
Amount Done: 0
Start Date: 05-03-05

Est Finish Date : 05-17-05

Act Finish Date : Drawings Reqd : No Ok for Approval :

Approval Rec'd :

Department Code:

Burden Flags : NNNNNN WO Status : Open

Invoice State : Not Invoiced

Invoice Date
Invoice Number:
Invoice Amount: 0.00

Order Entry No : OE Value : 0.00

Est Mark Up : 0.000% Actual Mark Up : 0.000%

\$0 Posted to Finished Goods

		Estimated	Actual	Var. %	Posted	To Post
Material Cost	= <b>=</b> :	0.00	0.00	0.00	0.00	0.00
Engineering Hours Engineering Cost	:	0.00	0.00	0.00	0.00	0.00
Production Hours Production Cost	:	0.00	0.00	0.00	0.00	0.00
Packaging Hours Packaging Cost	:	0.00 0.00	0.00 0.00	0.00 0.00	0.00	0.00
OverHead Hours OverHead Cost	:	0.00	0.00 0.00	0.00 0.00	0.00	0.00
CNC Hours CNC	:	0.00	0.00	0.00	0.00	0.00
Misc. Hours Misc.	:	0.00	0.00	0.00	0.00	0.00
Burden	•	0.00	0.00	0.00	3.00	0.00
	•	========		======		
Total Cost Mark up Selling Cost	:	0.00 0.000 0.00	0.00 0.000 0.00	0.00		

		Estimated	Actual
Labour Hrs/Amount Done	:	0.00	0.00
Profits/(Loss)	:	0.00	0.00

# CERTIFICATE OF COMPLIANCE CERTIFICAT DE CONFORMITE



180 LABROSSE AVENUE POINTE CLAIRE, QC H9R 1A1

DATE

16 MAY 2005

DART AEROSPACE LTD 1270 ABERDEEN ST. HAWKESBURY, ON K6A 1K7

M QUANTITY  10 PCS	PURCHASE ORDER 2007986	PART NUMBER <b>D3144-109</b>	REV NAME  DOUBLER	DWG ISSUE
MATERIA <b>AL 2024-T3 (Q</b> 0		SUPPLIED BY SAMUEL SPECIAL		Г. REL. NO. 0058514 <b>АТТ'D</b>
	PROCESS		PROCESSOR	RELEASE NOTE
			1	
		en egitak e		
		er jarah y		
			and Charles and Market Artists of the Samuel Company of the Compan	

G.F.I. Q.C. REP. Patton Hand

# LES MÉTAUX SPÉCIALISÉS

Programme d'Assurance Qualité Enregistré / Registered Q.A. Program ISO 9001:2000 AS9100

# LETTRE DE CONFORMITÉ -LETTER OF COMPLIANCE

Date: 7 MARS 2005

Company Name:

G.F.I. Division of Thomas & Betts, Limited

Address:

180 avenue Labrosse Pointe Claire, Qué.

City: Zip Code:

H9R 1A1

# du client:

0058514

# de commande SSMO:

811460

Customer's order #:

SSMQ's Order #:

La présente est pour certifier que le matériel détaillé ci-dessous est conforme aux exigences de votre commande et des normes du grade tel que décrit:

The following is to certify that the material listed below meets your order requirements and grade standards as described:

)\verte/Our Item#	# de pièces/ # of pieces	Épaisseur/Grandeur Guage/Size	Alliage/Trempe Alloy/Temper	Spécification / Specification	Lot/Heat
1 .,	2	.032" x 48" x 144"	2024 T3	AMS-QQ-A-250/4	.226511
4					
	-				-
				<u> </u>	<del> </del>

Bien à vous, Yours truly,

Commis à l'administration. Administration Clerk.



SHIP TO:

LES METAUX SPECIALISES SAMUEL (SHIP TO) 21525 CLARK GRAHAM BAIE D'URFE, PQ, CA H9X3T5

SOLD TO:

SAMUEL SON & CO LTD 2225 FRANCIS HUGHES LAVAL, PQ, CA H7S1N5 KAISER

Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586

# **CERTIFIED TEST REPORT**

Serial Number 4011938.

CUSTOMER PO NUMBER: N16221		CUSTON	MER PART NUMBER: SHIPPING R 100089/2		JN #/LOAD ID:		GOV'T CONT	GOV'T CONTRACT NUMBER:	
KAISER ORDER NO:	LINE ITEM		SHIP DATE:	ALLOY:		CLAD:		TEMPER:	
1008983	1	-	9-JUL-2004	2024	\$. 车	BARE		T3 .	
WEIGHT SHIPPED:	QUANTITY	<b>':</b>	B/L NUMBER:	GAUGE:		WIDTH	:	LENGTH:	
3928 LB	173 PCS	EST.	202031	0.0320 IN		48.00	IN	144.000 IN	

### **Certified Specifications**

AMS 4037/RevN

AMS-QQ-A-250/4/RevA

ASTM B 209/Rev04

Test Code: 1504

**Test Results** 

Lot: 22651	1 Cast	Drop  Dir / # Tests  LT / 2 (Min:Max)			Ingot  Ultimate KSI (MPA) 67.4:67.6 (465:466)							
Tensile:	Temper T3						Yield KSI (MPA) 45.2 : 45.3 (312 : 312)		Elongation % 17.8: 18.3			
Chemistry: Actual	SI 0.08	FE 0.22	CU 4.46	MN 0.55	MG 1.32	CR 0.01	ZN 0.17	T1 0.01	V 0.01	ZR 0.00	тот	OTHER 0.06
					ALLOY L	IMITS						
Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V 0.00	ZR 0.00	OTHER EACH	MAX 0.05
2024 MIN MAX	0.00 0.50	0.00 0.50	3.80 4.90	0.30 0.90	1.20 1.80	0.00 0.10	0.00 0.25	0.00 0.15		0.05	TOT	0.15
•				A	luminum R	emainder	-		-			

#### CERTIFICATION

KAISER ALUMINUM & CHEMICAL CORPORATION (KAISER) HEREBY CERTIFIES THAT METAL SHIPPED UNDER THIS ORDER WAS MANUFACTURED IN THE U.S.A. AND HAS BEEN INSPECTED, TESTED, AND FOUND IN CONFORMANCE WITH THE REQUIREMENTS OF THE APPLICABLE SPECIFICATIONS AS INDICATED HEREIN. ALL METAL WHICH IS SOLUTION HEAT-TREATED COMPLIES WITH AMS 2772 (MIL-11-6088). ANY WARRANTY IS LIMITED TO THAT SHOWN ON KAISER'S STANDARD GENERAL TERMS AND CONDITIONS OF SALE.

TEST REPORTS ARE ON FILE, SUBJECT TO EXAMINATION. ISO-9001:2000 CERTIFIED

**BILL POYNOR, LABORATORIES SUPERVISOR** 

Biel Poy